



Data Sheet AI-2331-TWT-2-R

Features:

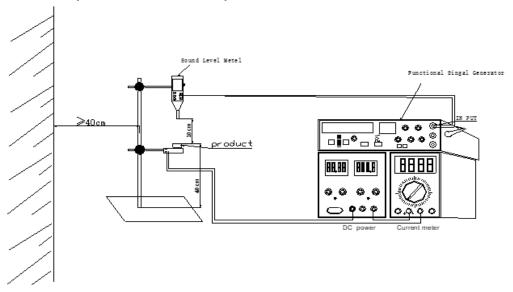
- Piezo Indicator
- 12VDC rated, 3200Hz
- Top-Firing Thru-Hole Type
- · Wave Solder and Wash allowed

Specifications

Parameters	Values	Units
Rated Voltage	12	VDC
Operating Voltage Range	3 ~ 20	VDC
Current Draw at Rated Voltage	13	mA
Minimum SPL @ 10cm	85	dBA
Resonant Frequency	$3,200 \pm 500$	Hz
Tone or Pulse Rate	Continuous	-
Housing Material	ABS	-
Terminal Material	Au Plated Brass	-
Weight	5	Grams
Acceptable Soldering Methods	Hand Solder, Wave Solder	-
Environmental Compliances	RoHS/REACH	7c-1
Storage Temperature	-40 ~ +95	°C
Operating Temperature	-30 ∼ +85	°C

Measurement Method (Temperature: 25±3°C; Relative Humidity: 60% ~ 70%)

Standard Test Fixture (Distance: 10cm, 12VDC)

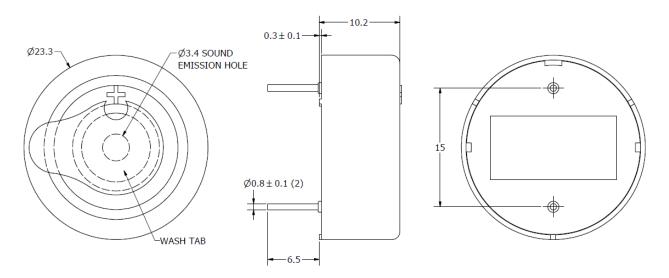


©2021, PUI Audio Inc.

Reliability Testing

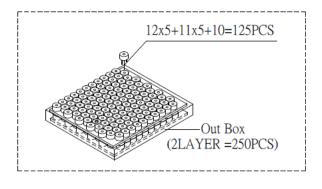
Type of Test	Test Specifications		
H: 1 m	Test chamber for 240 hours at +80°C, then rested at room temperature		
High Temperature Test	for 4 hours.		
	Test chamber for 240 hours at -40°C, then rested at room temperature		
Low Temperature Test	for 4 hours.		
	Test chamber for 240 hours at +40°C with relative humidity at 90±5%,		
Humidity Test	then rested at room temperature for 4 hours.		
Temperature Cycle Testing	Test repeated 5 times, then rest at room temperature for 4 hours.		
Vibration Test	1.5mm amplitude vibration with $10\sim55$ Hz band of vibration frequency for 2 hours. Repeat test in X, Y, Z directions (total 6 hours).		
Solderability Test	Lead terminals immersed in rosin for 5 seconds, then in solder bath of +270±5°C for 3±1 seconds.		
Soldering Heat Resistance	Lead terminals immersed up to 1.5mm from indicator body in solder bath of +300±5°C for 3±0.5 seconds or +260±5°C for 10±1 seconds		
	Free drop a unit from the height 75cm to the surface of 40mm thick		
Drop Test	board, three times. Repeat test in X, Y, Z directions (total 9 times).		
	Apply rated voltage for 48 hours continuously at +70°C.		
Load Test	Apply a duty cycle of 1 minute on, 1 minute off 5000 times minimum, at rated voltage and room temperature (+25±3°C).		

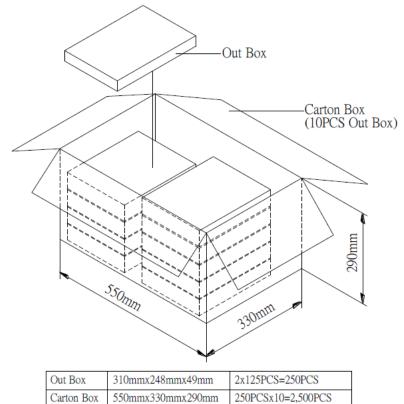
Measurements should be $\pm 10\%$ compared with initial after testing. SPL should be ± 10 dB. Dimensions



©2021, PUI Audio Inc.

Packaging





Specifications Revisions

Revision	Description	Date
-	RELEASED FROM ENGINEERING	7/08/2006
A	REVISED TO INVENTOR 3D DRAWING TEMPLATE	12/27/2007

Note:

- 1. Unless otherwise specified:
 - A. All dimensions are in millimeters.
 - B. Default tolerances are ± 0.5 mm and angles are $\pm 3^{\circ}$.
- 2. Specifications subject to change or withdrawal without notice.